

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P242272

Luminaire Tested: **S122DR-S865D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DR-S865D930-X4F0-XX-UDD-F-W
Description: DEFINE 2 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2751.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular (W 0.15' x L: 3.88' x H: 0')
CIE Type: Direct

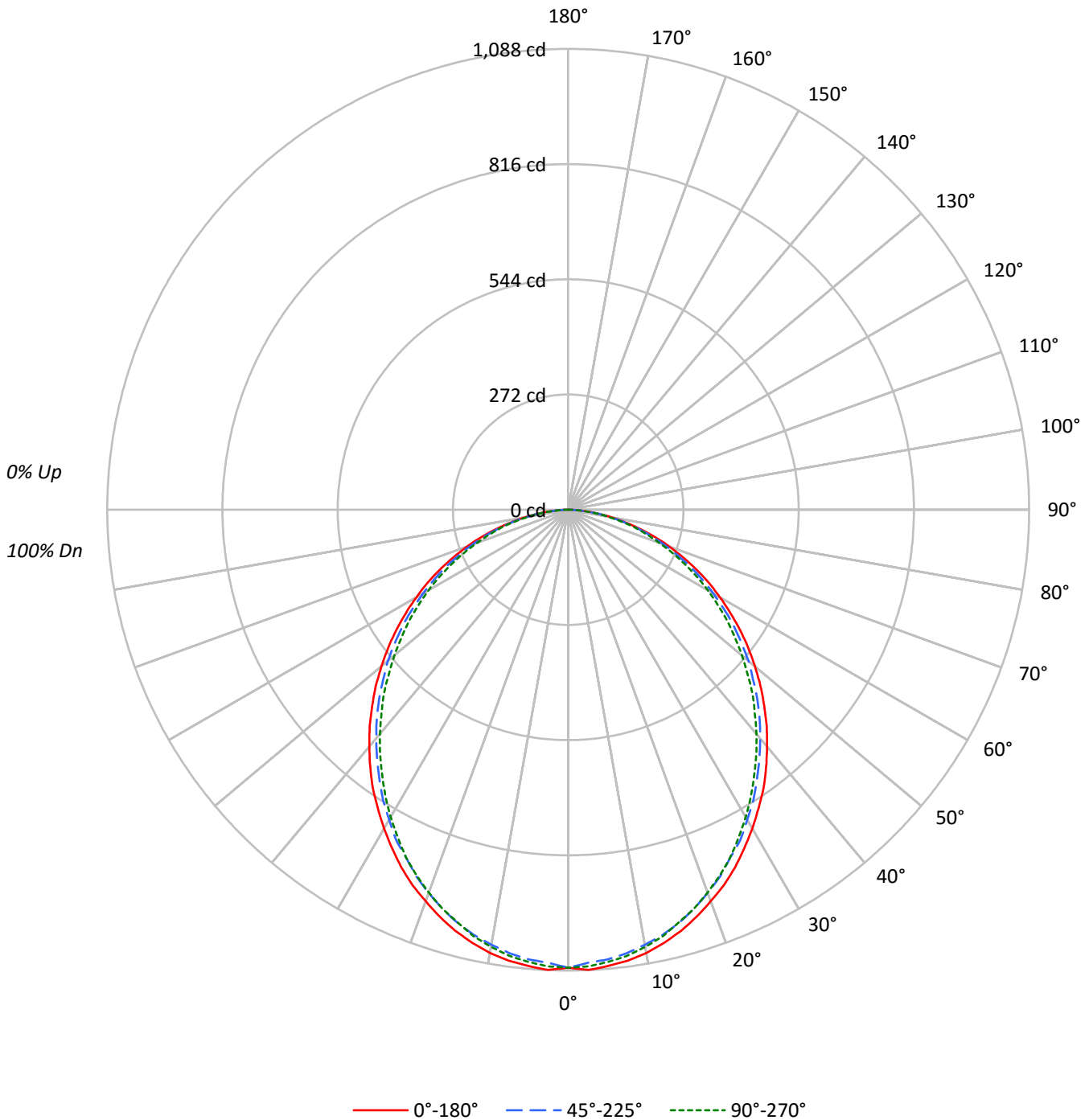
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242272

CATALOG NUMBER: S122DR-S865D930-X4F0-XX-UDD-F-W

Luminous Intensity Polar Plot





TEST NUMBER: P242272

CATALOG NUMBER: S122DR-S865D930-X4F0-XX-UDD-F-W

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20596	20596	20596
5°	20675	20377	20495
10°	20552	20169	20270
15°	20297	19909	19887
20°	19938	19516	19494
25°	19579	19033	19033
30°	19118	18592	18431
35°	18688	18061	17793
40°	18149	17527	17192
45°	17617	17000	16580
50°	17039	16452	15868
55°	16435	15814	15226
60°	15764	15051	14495
65°	15040	14292	13638
70°	14129	13377	12737
75°	12857	12320	12011
80°	11408	11068	10497
85°	9310	8851	7955



TEST NUMBER: P242272

CATALOG NUMBER: S122DR-S865D930-X4F0-XX-UDD-F-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	3.7
10°-20°	286.3	10.4
20°-30°	420.8	15.3
30°-40°	488.7	17.8
40°-50°	488.1	17.7
50°-60°	425.6	15.5
60°-70°	314.6	11.4
70°-80°	178.0	6.5
80°-90°	47.0	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	808.9	29.4
0°-40°	1297.6	47.2
0°-60°	2211.4	80.4
0°-90°	2751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2751.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1081	1081	1081	1081	1081	
5°	1081	1077	1066	1074	1072	103
15°	1029	1023	1010	1014	1008	290
25°	932	923	906	908	906	429
35°	804	793	777	770	765	502
45°	654	647	631	620	616	505
55°	495	489	476	464	458	443
65°	334	328	317	308	303	330
75°	175	173	167	161	163	186
85°	43	42	40	37	36	50
90°	0	0	0	0	0	



TEST NUMBER: P242272

CATALOG NUMBER: S122DR-S865D930-X4F0-XX-UDD-F-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1081.3	1081.3	1081.3	1081.3	1081.3
2.5°	1087.5	1082.3	1070.9	1081.3	1079.2
5°	1081.3	1077.1	1065.7	1074.0	1071.9
7.5°	1074.0	1067.8	1056.3	1064.7	1062.6
10°	1062.6	1055.3	1042.8	1051.1	1048.0
12.5°	1047.0	1040.7	1028.3	1033.5	1031.4
15°	1029.3	1023.1	1009.6	1013.7	1008.5
17.5°	1007.5	1001.2	987.7	992.9	987.7
20°	983.6	977.3	962.8	965.9	961.7
22.5°	959.7	950.3	936.8	936.8	934.7
25°	931.6	923.3	905.6	907.7	905.6
27.5°	900.4	893.1	879.6	876.5	871.3
30°	869.2	860.9	845.3	842.2	838.0
32.5°	835.9	829.7	813.1	806.8	802.7
35°	803.7	793.3	776.7	770.4	765.2
37.5°	767.3	757.9	741.3	734.0	728.8
40°	729.9	721.6	704.9	695.6	691.4
42.5°	693.5	685.2	668.5	658.1	651.9
45°	654.0	646.7	631.1	619.7	615.5
47.5°	615.5	608.2	591.6	580.2	573.9
50°	575.0	569.8	555.2	540.6	535.5
52.5°	535.5	528.2	514.7	503.2	495.9
55°	494.9	488.7	476.2	463.7	458.5
57.5°	454.4	449.2	435.6	423.2	419.0
60°	413.8	409.6	395.1	383.7	380.5
62.5°	374.3	367.0	356.6	346.2	342.1
65°	333.7	327.5	317.1	307.8	302.6
67.5°	292.2	287.0	277.6	270.3	266.2
70°	253.7	249.5	240.2	232.9	228.7
72.5°	214.2	210.0	204.8	197.5	194.4
75°	174.7	172.6	167.4	161.2	163.2
77.5°	139.3	135.2	133.1	130.0	126.8
80°	104.0	102.9	100.9	97.7	95.7
82.5°	70.7	70.7	69.7	65.5	65.5
85°	42.6	41.6	40.5	37.4	36.4
87.5°	18.7	16.6	14.6	11.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)